

SPECIFICATIONS

SHIELDING REQUIREMENTS:

ENTRY/EXIT PANEL 1"THK LEAD (TOTAL BACK WALL= 2" THK LEAD)

SIDE WALLS 1"THK LEAD

ROOF 1/2"THK LEAD

CONSTRUCTION: MODULAR

STRUCTURE: SELF-SUPPORTED

COMMERCIAL RATED: 40 LBS LIVE WEIGHT/SQ FT

100 LBS DEAD WEIGHT/SQ FT

OVERALL DIMS:

1.75M Avg WIDTH X 8.25M LONG X 3.3M HIGH [5.8' X 27' X 11']

CLEAR HEIGHT INSIDE: 3.0M [10']

DOOR OPENING: 2.4M HIGH X 1.0M WIDE [8'X 3.3']

SLIDING DOORS:

ONE MANUAL, FIXED BY LATCH

ONE PNEUMATIC WITH MANUAL OVERRIDE

STANDARD SIDE PANEL: 1.0M WIDE X 3.3M HIGH [3.3'X11']

SANDWICH CONSTRUCTION:

STEEL 3mm [1/8" (11Ga)] - LEAD 25mm [1"]- STEEL 6mm[1/4"]

STRUCTURE: 3 1/2" X 3 1/2" X 1/4" STEEL ANGLE, ALL AROUND

WEIGHT: 2280LB

STANDARD BACK PANEL: 1.0M WIDE X 3.3M HIGH [3.3'X11']

SANDWICH CONSTRUCTION:

STEEL 3mm [1/8" (11Ga)] - LEAD 50mm [2"]- STEEL 6mm[1/4"]

STRUCTURE: 3 1/2" X 3 1/2" X 1/4" STEEL ANGLE, ALL AROUND

WEIGHT: 5680LB

STANDARD ROOF PANEL: 1.0M WIDE X 1.75M LONG [3.3'X5.8']

SANDWICH CONSTRUCTION:

STEEL 3mm [1/8" (11Ga)] - LEAD 13mm [1/2"]- STEEL 6mm[1/4"]

STRUCTURE: MC 6 X 16.3 STEEL CHANNEL, ALL AROUND

WEIGHT: 1150LB

STANDARD DOOR PANEL: 1.0M WIDE X 2.5M HIGH [3.3'X8']

SANDWICH CONSTRUCTION:

STEEL 3mm [1/8" (11Ga)] - LEAD 25mm [1"]- STEEL 6mm [1/4"]

WEIGHT: 1900LB

LABYRINTH PANELS: UTILITIES, CABLES, VENTILATION, OZONE

UTILITIES: CHILLED WATER 5°-0.8°C [4°-1.5°F]

DI WATER

COMPRESSED AIR 103 5psi

ELECTRICAL POWER 30kVA 120/208V

WORK STATION CRANE WITH MANUAL HOIST:

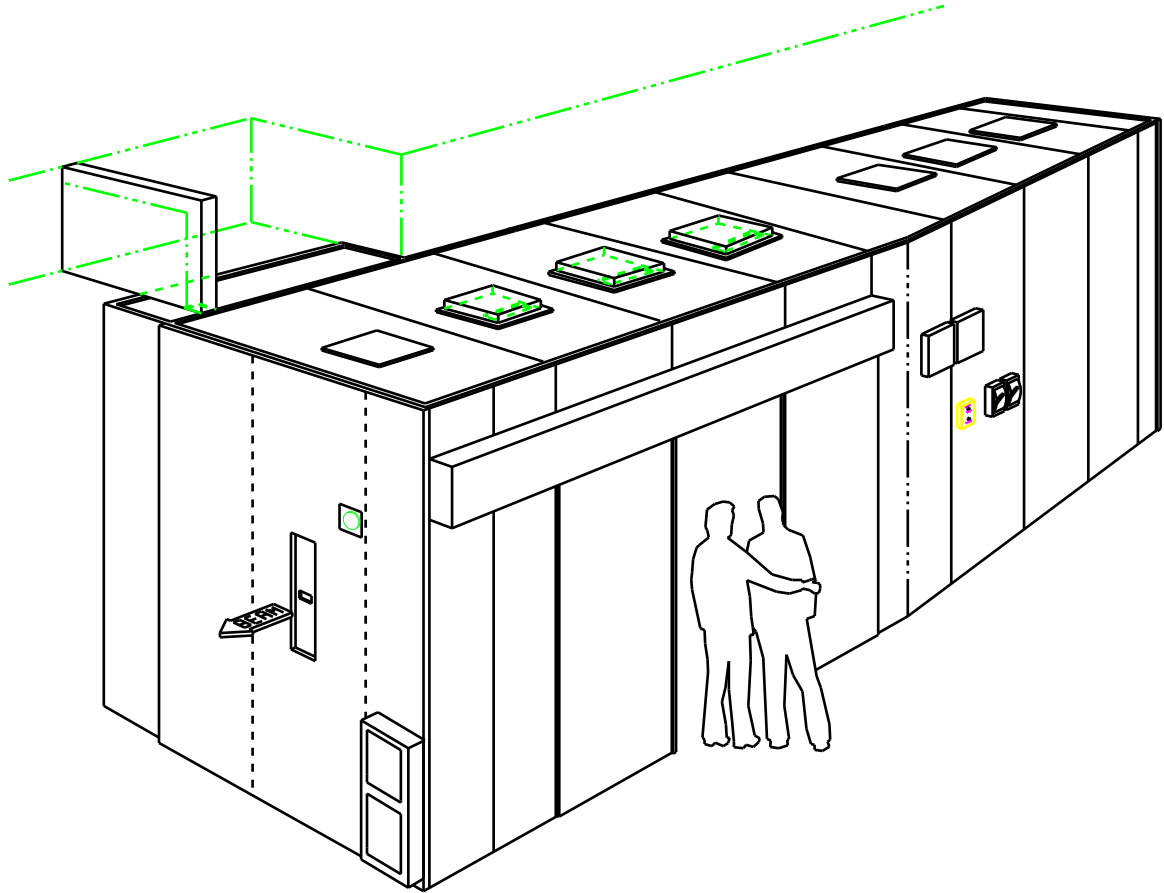
SPAN 1.21M [4']

X RUNWAY LENGTH 8.25M [27'] X

CLEAR HEIGHT 3.0M [10']

CAPACITY: 1000Kg [1 TON]

ILLUMINATION: FLUORESCENT- OFFICE RATED: 100 FOOT CANDLE.



NOTES:

1- THE HUTCH MANUFACTURER SHALL BE RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE HUTCH, AND SHALL CERTIFY THAT THE STRUCTURE WAS REVIEWED BY A LICENSED STRUCTURAL ENGINEER.

STRUCTURES AND THEIR ELEMENTS SHALL BE BUILT FOLLOWING DOE 6430 AS REFERRED TO IN TECHNICAL SPECS. DESIGN LOADS SHALL INCLUDE LOADS THAT CAN OCCUR DURING CONSTRUCTION. DEAD LOADS SHALL INCLUDE THE USE OF THE INTERIOR UNISTRUT FOR SHELVES ONE FOOT WIDE SUPPORTING LOADS OF 200 LBS.

2- LEAD THICKNESS IS SPECIFIED BY ARGONNE. THE MANUFACTURER SHALL BE RESPONSIBLE FOR PROVIDING A RADIATION LEAK PROOF HUTCH.

LEAD LINED PANELS SHALL BE CONSTRUCTED FROM SINGLE UNPIERCED SHEET, FREE OF OXIDE INCLUSIONS, FISSURES, VOIDS AND ALL OTHER DETRIMENTAL DEFECTS. MATERIAL SHALL BE LEAD GRADE 'C' TO COMPLY WITH FEDERAL SPECIFICATION QQ-L-201. HUTCH SHALL MEET ALL APPLICABLE RADIATION GUIDE LINES REFERRED TO IN TECHNICAL SPECS.

NOTE:
REFERENCE DRAWING FILE A1773301
P41050903-220000-01
SHEET 2 OF 10

PROJECT INFORMATION		APPROVED BY		REVISIONS	
A2358980		ARGONNE NATIONAL LABORATORY		1/15/17	
PROJECT ID		1/15/17		5/11/16	
CONTRACTOR		J. CHANG		5/11/16	
DESIGNER		J. CHANG		5/11/16	
CHECKER		J. CHANG		5/11/16	
APPROVER		J. CHANG		5/11/16	
DATE		5/11/16		5/11/16	
PROJECT NAME		ADVANCED PHOTON SOURCE		HG SR-CAT 1-ID-B	
PROJECT LOCATION		WHITE BEAM EXPERIMENTAL STATION ASSEMBLY			
PROJECT NUMBER		P4105090301-320000-00			
PROJECT SCALE		1/16"=1'			
PROJECT DATE		1/15/17			
PROJECT STATUS		E			